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 ACCESSION NUMBER: 1994-032009 [04] WPIINDEX Full-text
 DOC. NO. CPI: C1994-014805 [04]
 TITLE: Hot-melt adhesive compsn for bonding biodegradable
 plastics - contains high mol thermoplastic resin and
 tackifier, either or both contg poly: lactic acid
 copolymer resin
 DERVENT CLASS: A17; A23; A81; G03
 INVENTOR: DOI K; KAWASAKI E; KITAMURA T; YASHIRO K
 PATENT ASSIGNEE: (MITK-C) MITSUI TOATSU CHEM INC
 COUNTRY COUNT: 1

PATENT INFO ABBR.:

| PATENT NO | KIND | DATE | WEEK | LA | PG | MAIN IPC | |
|-------------|------|--------------------|------|-------|----|----------|-----|
| JP 05339557 | A | 19931221 (199404)* | JA | 16[0] | | | <-- |
| JP 3330390 | B2 | 20020930 (200271) | JA | 16 | | | |

APPLICATION DETAILS:

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| JP 05339557 A | | JP 1992-152177 | 19920611 |
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AB JP 05339557 A UPAB: 20060108

The compsn. contains thermoplastic resin and a tackifier, one or both of them containing poly-lactic acid or lactic acid copolymer resin derived from lactic acid and other hydroxycarboxylic acids. The system has a melt viscosity of 10 to 300,000 cps. at 180 to 210 deg.C. A part or whole of the thermoplastic resin and/or tackifier is L type and/or D type poly-lactic acid or lactic acid copolymer resin derived from L type and/or D type lactic acid and other hydroxycarboxylic acids. The thermoplastic resin is one of or a mixture of two or more of high molecular modified poly-lactic acid having a molecular weight of higher than 10,000 on average selected from (a) urethanated poly-lactic acid, (b) esterified poly-lactic acid, (c) epoxy-modified poly-lactic acid, (d) urethanated modified poly-lactic acid, (e) silylated poly-lactic acid and (f) terminal esterified poly-lactic acid. The tackifier is one or more of low molecular poly-lactic acid having a mol. lower than 5,000 on average selected from (a) to (f). Other thermoplastic resins are polyanide, polyester, polyester-urethane, polycarbonate and polyolefin and other tackifiers are rosin ester and terpene-phenol resin. At least one wax component selected from natural wax, ester-amide wax and polyester wax and/or compatibilising plasticiser for poly-lactic acid is added to the compsn. in amount 0.1 to 50 weight%.